

## CLAIMS

1. A gas discharge tube comprising:

a sealed vessel in which gas is encapsulated;

a cathode section arranged in said sealed vessel;

5 an anode section, arranged in said sealed vessel, for generating discharge between said anode section and said cathode section; and

a discharge path restricting section, arranged in said sealed vessel, for narrowing a discharge path between said cathode section and said anode section,

10 wherein said anode section has a first surface facing said discharge path restricting section, a second surface opposing said first surface, and an opening portion for communicating between said first surface and said second surface, and

15 wherein a cross section of said opening portion defined on a reference plane coincident with said first surface has a non-circular shape.

2. A gas discharge tube according to claim 1, wherein the cross section of said opening portion has a non-circular shape where the maximum opening width in a first direction is different from that in a second direction orthogonal to the first direction.

3. A gas discharge tube according to claim 1 or 2, wherein the cross section of said opening portion has one of an elliptic shape, an oblong shape and a rectangular shape.

4. A gas discharge tube according to claim 1, wherein the opening width of a part of said opening portion is adjusted by a projection extending along the reference plane from an edge part of said

anode section defining said opening portion.

5        5. A gas discharge tube according to claim 2, wherein the maximum opening width in the second direction of the cross section of said opening portion is adjusted by a projection extending in the second direction from an edge part of said anode section defining said opening portion.

10       6. A gas discharge tube according to any one of claims 1 to 5, wherein said anode section is arranged such that said first surface is parallel to a tube axial direction of said sealed vessel so as to emit light in a direction orthogonal to the tube axial direction of said sealed vessel.

15       7. A light source apparatus comprising:  
a gas discharge tube of any one of claims 1 to 6; and  
a visible light source for emitting visible light toward said opening portion of said anode section constituting a part of said gas discharge tube.

8. A liquid chromatograph including a light source apparatus according to claim 6.